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2nd piso Oficina 44, (C1053ABJ), Buenos Aires (AR). EGUILA, Manuel, Camilo [AR/AR]; Universidad Nacional de Quilmes, Roque Saenz Pena 180, Bernal - B1876BXD, Buenos Aires (AR).

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(72) Inventors; and

(75) Inventors/Applicants (for US only): MINDLIN, Bernardo, Gabriel [AR/AR]; Viamonte 430 2nd piso Oficina 44, (C1053ABJ), Buenos Aires (AR). TREVISAN, Marcos, Alberto [AR/AR]; Viamonte 430

(54) Title: TOPOLOGICAL VOICEPRINTS FOR SPEAKER IDENTIFICATION

Known Speaker's  
Voice Mold in Data Bank

	2		
	0	0	
	2		1
1			

Unknown Speaker's  
Voice Mold Obtained from Voice

2	X	-1	0
0	X	0	-2
1	2	0	1
2	0	1	

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(57) Abstract: The speaker recognition techniques of this application use a topological description of his/her voice spectral properties in order to use it as a biometric characterization for the speaker. Distinctly different from computing distances between spectral curves obtained from voices of different speakers in various spectral analysis methods, such topological features provide a one-to-one correspondence between a subject and a mold represented by a set of rational numbers.

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